### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	ITY		A Alle
Го:			PCT Station
			RITTEN OPINION OF THE SONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	
Applicant's or agent's file reference 04S0419P		FOR FURTHER ACTION  See paragraph 2 below	
International application No. International filing date		day/month/year)	Priority date (day/month/year) 12.05.2003
PCT/JP2004/006609 International Patent Classification (IPC) or both	11.05.2004	dIPC	12.03.2003
International Patent Classification (IPC) or both	national classification and	dire	
Applicant TOKYO ELECTRON LIMITE	en.		
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This opinion contains indications rela     Box No. I Basis of the		<b>S</b>	
	opinion		
Box No. II Priority  Box No. III Non-establi	shment of opinion with res	rard to novelty invent	ive step and industrial applicability
Box No. IV Lack of unit	ty of invention	gard to noverty, invent	To stop and modella approach,
Box No. V Reasoned st	•	.1(a)(i) with regard to one supporting such state	novelty, inventive step or industrial ement
Box No. VI Certain doc	uments cited		
	ects in the international app	plication	
Box No. VIII Certain obse	ervations on the internation	nal application	
International Preliminary Examining	Authority ("IPEA") excep	t that this does not an	l be considered to be a written opinion of the oly where the applicant chooses an Authority other
than this one to be the IPEA and the this International Searching Authority	chosen IPEA has notified will not be so considered.	l the International Bur	eau under Rule 66.1bis(b) that written opinions of
If this opinion is, as provided above.	, considered to be a writte priate, with amendments,	n opinion of the IPEA before the expiration	a, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
For further options, see Form PCT/IS		<b>3 ,</b>	-
3. For further details, see notes to Form	PCT/ISA/220.		
Name and mailing address of the ISA/JP		Authorized officer	
Name and maning address of the 157018		- Idinorized officer	
Facsimile No.		Telephone No.	

Box	k No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	ъ.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	itional comments:

Box	κ No. I	V Lack of unity of invention
1.		In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
		paid additional fees
		paid additional fees under protest
		not paid additional fees
2.	$\boxtimes$	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with
	$\boxtimes$	not complied with for the following reasons:
		A technical feature common to claims 1-28 is "a vaporizer which is equipped with a vaporizing chamber where liquid material is vaporized, an atomizing unit, a delivery unit which sends out gaseous material and, and heating units" As the constituent concerned is commonly known, this point is not recognized as "a special technical feature" within the meaning of the second sentence in PCT rule 13.2.
		Therefore, "a special technical feature" of claims 1-5, 24, 25 and 28 is that "the delivery unit is equipped with a filter member that covers the above-mentioned gas exit while allowing the gaseous material to pass through, and an electric-heating member that transfers heat of the above-mentioned heating units to the above-mentioned filter member."
		On the other hand, "a special technical feature" of claims 6-16 (the second embodiment) and claims 17-23 and 27 (the third embodiment) is as follows respectively:
		(Second embodiment)  That "the delivery unit is equipped with a filter member which covers the above-mentioned gas exit while allowing the gaseous material pass through, and a sliding plate which covers the above-mentioned filter member on the other side of the above-mentioned gas exit."
		(Third embodiment)  That "The delivery unit is provided with (i) a plate member jacketing the above-mentioned gas exit and the wall surface surrounding it with a space left and with the circulation opening unit secured, (ii) formation of a gas circulation space between the above-mentioned plate member and the above-mentioned wall surface which connects the above-mentioned vaporizing chamber and the above-mentioned gas exit, (iii) multiple posts which are arranged inside the above-mentioned gas circulation space and function as a fluid baffle, and (iv) a heater which heats the above-mentioned gaseous material flowing through the above-mentioned gas circulation space."
		Thus, it is considered that there is no technical relationship among the main embodiment, the second embodiment and the third embodiment involving one or more of the same or corresponding special technical features.
4.	Con	sequently, this opinion has been established in respect of the following parts of the international application:
	$\boxtimes$	all parts
		the parts relating to claims Nos.

International application No.
PCT/JP2004/006609

Box No. V Reasoned statement under Ru citations and explanations sup			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement		
1.	Statement				
	Novelty (	N)	Claims	1-28	YES
			Claims		NO.
	Inventive	step (IS)	Claims	1-28	YES
			Claims		NO
	Industrial	applicability (IA)	Claims	1-28	YES
			Claims		NO

#### 2. Citations and explanations:

Document 1: JP, 7-94426, A (Ryoden Semiconductor System Engineering), 7 April, 1995 (07.04.95), Fig. 1, paragraph 0031 (Family: none)

Document 2: JP, 7-310185, A (Hitachi, Ltd.), 28 November, 1995 (28.11.95), Fig. 1, paragraph 0028 (Family: none)

Document 3: JP, 2000-119858, A (Mitsubishi Materials Corp.), 25 April, 2000 (25.04.00), paragraph 0006 (Family: none)

Document 4: JP, 8-131812, A (Nippon Tairan Kabusiki Kaisha), 28 May, 1996 (28.05.96), paragraph 0021 Fig. 3, (Family: none)

Document 5: JP, 6-310444, A (Ryoden Semiconductor System Engineering), 4 November, 1994 (04.11.94), Figs. 13, 14 (Family: none)

#### Claims 1-28

The inventions described in claims 1-28 appear to be novel and to involve an inventive step in view of documents 1-5 cited in the ISR.

None of documents 1-5 describe nor suggest "a filter member which covers the above-mentioned gas exit while allowing the gaseous material to pass through and a heat-transfer member which transfers heat of the above-mentioned heating units to the above-mentioned filter member" described in claims 1-5, 24 and 25, "a filter member which covers the above-mentioned gas exit while allowing the gaseous material pass through, and a sliding plate which covers the above-mentioned gas exit on the opposite side of the above-mentioned gas exit" described in claims 6-16, 24 and 26 \(\text{\textit{m}}\)" a plate member which covers the above-mentioned gas exit and the wall surface surrounding it with a space left and with the circulation opening unit secured, formation of a gas circulation space between the above-mentioned plate member and the above-mentioned wall surface which connects the above-mentioned vaporizing chamber and the above-mentioned gas exit, multiple posts which are arranged inside the above-mentioned gas circulation space and function as a fluid baffle, and a heater which heats the above-mentioned gaseous material flowing through the above-mentioned gas circulation space" described in claims 17-23, 24, 27 and 28.

Each of constituent features brings about the effect that sprayed material and foreign material are not exhausted from the vaporizer and the effect that, in the case of using a filter, it is not easily clogged.

. Certain	10.1 . d d (D. l - 42b) 1 and			
	published documents (Rule 43bis.1 and	70.10)		
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid clain (day/month/year)
	P 2004-21183 A (SHIMAZU DRPORATION)	29.07.2004	01.07.2003	
gs. 2, 5t	o, 7, Claim 1-3 Nos. 0005, 0012, 0015, 0024-00	)24 (Family none)		
ragrapn and X to	claims 1-5, 25, 6-8, 12-16, 26	154 (Family, none)		
Non-w	ritten disclosures (Rule 43bis.1 and 70.9)	)		
Non-w			D tisclosure referri	ate of written disclosure
Non-w	Kind of non-written disclosure	Date of non-written (day/month/ye	disclosure referri	ate of written disclosure ing to non-written disclosure (day/month/year)
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Box No. VII	Certain defects in the international application
The following defe	cts in the form or contents of the international application have been noted:
Claims 7, In claim 5	8 i cited in claims 7 and 8, "a sliding plate" is not described.
:	

Box No. VIII Certain observations on the international application
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
Claim 11 The constitution is unclear as to in which direction of the sliding plate and how a slit (claim 11) as an opening (claim 10 cited in claim 11) formed on the sliding plate itself is arranged and as to how it has "a form bending in the direction of thickness of the sliding plate."